

Author Index of Volume 32

-
- | | | |
|------------------------|--------------------------|---------------------------|
| Aaronson, H.I., 107 | Kaganovskii, Yu.S., 185 | Philips, B.A., 231 |
| Abinandanan, T.A., 169 | Kambe, S., 57 | Pi, S.H., 89 |
| Akao, T., 57 | Kelton, K.F., 145 | Pinto, N.G., 63 |
| Anchev, V.C., 99 | Kim, Y.G., 89 | Pollock, T.M., 255 |
| Auyeung, R.C.Y., 221 | Konnert, J., 221 | |
| | Kouznetzova, T.A., 7 | Ramachandrarao, P., 285 |
| Balakrishnan, V., 201 | Kumar, D., 239 | Ramanujan, R.V., 125 |
| Balkanski, M., 93 | Kumar, V., 177 | Ranganathan, S., 137 |
| Banerjee, S., 25 | | Rath, B.B., 101, 153 |
| Bath, A., 51 | Lee, K., 231 | Reddy, P.J., 93 |
| Batra, S., 25 | Lee, K.C., 39 | Russell, K.C., 279 |
| Beke, D.L., 185 | Lei, C.L., 39 | |
| Belyansky, M.P., 7 | Lepley, B., 51 | Sabhapathi, V.K., 93 |
| Bobruiko, V.B., 7 | Li, W.-H., 39 | Sanday, S.C., 153 |
| | Li, Y.-L., 63 | Sarkisov, P.D., 17 |
| Carel, R., 211 | Lopatina, E.V., 17 | Satyalakshmi, K.M., 239 |
| Chen, M.C., 39 | Losson, E., 51 | Shime, I., 57 |
| Choi, J.M., 89 | Lupsan, A., 1 | Sigaev, V.N., 17 |
| Correra, L., 33 | Lux, G.E., 25 | Singh, A., 137 |
| Cotell, C.M., 221 | | Spanos, G., 107 |
| | Maged, A.F., 47 | Sprague, J.A., 221 |
| Desu, S.B., 75, 83 | Mahajan, S., 231 | Stefanovich, S.Yu., 17 |
| Dmowski, K., 51 | Marsh, S.P., 159 | Stepovich, M.A., 11 |
| Dubey, K.S., 285 | Masumura, R.A., 107, 247 | Sturm, A., 295 |
| D'Antonio, P., 221 | McFadden, R.S., 231 | Sultan, A., 25 |
| | Menon, E.S.K., 107 | Sundar Manoharan, S., 239 |
| Farcas, T., 1 | Mikheev, N.N., 11 | Sundararaman, D., 307 |
| Fayek, S.A., 47 | Mishra, S., 177 | |
| Froes, F.H., 279 | Mohanty, O.N., 267 | Tanchev, R.T., 100 |
| | Moon, D.W., 107 | Thompson, C.V., 211 |
| Gaskov, A.M., 7 | | Trifonova, E.P., 99 |
| | Naidu, B.S., 93 | |
| Hall, M.G., 107 | Nguyen, P., 63 | Uthanna, S., 93 |
| Hegde, M.S., 239 | Nicoletti, S., 33 | |
| Henderson, H.T., 63 | | Vardiman, R.G., 107 |
| Hong, C.H., 69 | Ohshima, S., 57 | Vijay, D.P., 75, 83 |
| Hong, K., 69 | Okuyama, K., 57 | |
| Horwitz, J.S., 221 | Ou, S.Y., 39 | Wang, K., 69 |
| Hussain, O.M., 93 | | Wei, C.C., 39 |
| Hwang, S.-T., 63 | Palibroda, E., 1 | Wiedenmann, A., 295 |
| | Pande, C.S., 247 | Wollenberger, H., 295 |
| Johnson, W.C., 169 | Pavlidis, D., 69 | |
| Julien, C., 93 | | Yu, H.Y., 153 |

THE
LIBRARY
OF THE
MUSEUM OF
ART AND
ARCHITECTURE
OF THE
UNIVERSITY OF
CHICAGO

1971
1972
1973
1974
1975
1976
1977
1978
1979
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025

Subject Index of Volume 32

- Aluminium**
effects of composition on isothermal solidification kinetics of highly undercooled alloys, 279
- Aluminium alloys**
solid-state transformations involving quasicrystals, 137
- Aluminium oxide**
a new image of porous aluminium oxide, 1
- Amorphous alloys**
optical absorption of glasses in the systems $(As_2Se_3)_{1-x}Tl_x$, 47
- Amorphous materials**
a new image of porous aluminium oxide, 1
effects of composition on isothermal solidification kinetics of highly undercooled alloys, 279
nanocrystalline state and solid state amorphization, 307
nanostructured amorphous Si-Au alloys—structure and atomic correlations, 295
random walks on fractals, 201
transient nucleation in glasses, 145
- Arsenic-selenium**
optical absorption of glasses in the systems $(As_2Se_3)_{1-x}Tl_x$, 47
- Atomic force microscopy**
microstructural development of thin films grown by pulsed laser deposition, 221
- Atomic ordering**
microstructural characteristics of mixed III-V epitaxial layers, 231
- Auger electron spectroscopy**
determination of parameters of surface mass transport from morphological changes of beaded thin films, 185
diffusion of cadmium in lead telluride, 7
- Bi and Cu valence**
preparation of a single phase sample of $(Bi_{1-x}Cu_x)Sr_2YCu_2O_y$ and its physical properties, 57
- Bi-1:2:1:2 phase**
preparation of a single phase sample of $(Bi_{1-x}Cu_x)Sr_2YCu_2O_y$ and its physical properties, 57
- Boltzmann-Matano analysis**
modeling of boron diffusion in polysilicon-on-silicon structures using a rapid thermal anneal step for ultra-shallow junction formation, 25
- Boron**
effects of heat treatments on coercivity and microstructure in $Nd_{15}Fe_{77}B_8$ sintered magnets, 89
modeling of boron diffusion in polysilicon-on-silicon structures using a rapid thermal anneal step for ultra-shallow junction formation, 25
- Cadmium**
diffusion of cadmium in lead telluride, 7
- Coarsening**
development of spatial correlations during coarsening, 169
- Copper-manganese sulphide**
co-precipitation of copper-manganese sulphide in Fe-3%Si steel, 177
- Crystallization**
stillwellite glass-ceramics with ferroelectric properties, 17
transient nucleation in glasses, 145
- Deep levels**
peak and side data analyses to measure deep levels by DLS-82E lock-in spectrometer, 51
- Defect formation**
nanocrystalline state and solid state amorphization, 307
- Diffraction**
on the stabilization of retained austenite: mechanism and kinetics, 267
- Diffusion**
asymptotic kinetics of phase coarsening in dilute systems, 159
diffusion of cadmium in lead telluride, 7
gas permeabilities in thermally grown silicon dioxide films, 63
- DLTS**
peak and side data analyses to measure deep levels by DLS-82E lock-in spectrometer, 51
- Elastic stress effects**
development of spatial correlations during coarsening, 169
- Electric field effect**
a new image of porous aluminium oxide, 1
- Electrical conduction**
a.c. conductivity studies on Al/MoO₃/Al sandwich structures, 93
- Electrical measurements**
on the stabilization of retained austenite: mechanism and kinetics, 267
- Electron microscopy**
a new image of porous aluminium oxide, 1
determination of parameters of surface mass transport from morphological changes of beaded thin films, 185
- Electrons**
the energy spectrum of electrons passing through film targets and some of its applications to electron beam engineering, 11
- Energy**
the energy spectrum of electrons passing through film targets and some of its applications to electron beam engineering, 11
- Equilibrium morphology**
equilibrium crystal shapes and their application to nucleation in solids, 125
- Fatigue**
novel fatigue-free layered structure ferroelectric thin films, 75

- Ferroelectric
 novel fatigue-free layered structure ferroelectric thin films, 75
- Ferroelectric properties
 stillwellite glass-ceramics with ferroelectric properties, 17
- Free energy
 a thermodynamic approach to the viscous behaviour of glass-forming liquids, 285
- Free volume
 a thermodynamic approach to the viscous behaviour of glass-forming liquids, 285
- Gallium arsenide
 phase-controlled metal-organic chemical vapor deposition epitaxial growth of GaN on GaAs(100) using NH_3 , 69
- Gallium nitride
 phase-controlled metal-organic chemical vapor deposition epitaxial growth of GaN on GaAs(100) using NH_3 , 69
- Gamma radiation
 optical absorption of glasses in the systems $(\text{As}_2\text{Se}_3)_{1-x}\text{Te}_x$, 47
- Glass
 transient nucleation in glasses, 145
- Glass transition
 a thermodynamic approach to the viscous behaviour of glass-forming liquids, 285
- Glass-ceramics
 stillwellite glass-ceramics with ferroelectric properties, 17
- Grain boundaries
 grain boundary and grain size effects in high and low transition temperature superconductors, 247
 kinetics of nucleation and growth processes, 101
 nanocrystalline state and solid state amorphization, 307
 nanostructured amorphous Si-Au alloys—structure and atomic correlations, 295
- Grain growth inhibitor
 co-precipitation of copper-manganese sulphide in Fe-3%Si steel, 177
- Grain orientations
 texture development in polycrystalline thin films, 211
- Hall effect
 preparation of a single phase sample of $(\text{Bi}_{1-x}\text{Cu}_x)\text{Sr}_2\text{YCu}_2\text{O}_y$ and its physical properties, 57
- High temperature strengthening
 the growth and elevated temperature stability of high refractory nickel-base single crystals, 255
- High-temperature superconductors
 preparation of a single phase sample of $(\text{Bi}_{1-x}\text{Cu}_x)\text{Sr}_2\text{YCu}_2\text{O}_y$ and its physical properties, 57
- Inclusion near interfaces
 on the heterogeneous nucleation of martensite, 153
- Indium phosphide
 peak and side data analyses to measure deep levels by DLS-82E lock-in spectrometer, 51
- Iron
 effects of heat treatments on coercivity and microstructure in $\text{Nd}_{15}\text{Fe}_{77}\text{B}_8$ sintered magnets, 89
 kinetics of nucleation and growth processes, 101
- Josephson effect
 grain boundary and grain size effects in high and low transition temperature superconductors, 247
- Kinetic processes
 texture development in polycrystalline thin films, 211
- Lanthanum nickelate
 superconducting and non-superconducting oxide multilayers, 239
- Laser ablation
 c-axis oriented ferroelectric $\text{SrBi}_2(\text{Ta}_x\text{Nb}_{2-x})\text{O}_9$ thin films, 83
- Laser processing
 large-area deposition of thin films by UV pulsed laser ablation, 33
- Layered structure
 a.c. conductivity studies on Al/MoO₃/Al sandwich structures, 93
 c-axis oriented ferroelectric $\text{SrBi}_2(\text{Ta}_x\text{Nb}_{2-x})\text{O}_9$ thin films, 83
 large-area deposition of thin films by UV pulsed laser ablation, 33
 novel fatigue-free layered structure ferroelectric thin films, 75
- Lead telluride
 diffusion of cadmium in lead telluride, 7
- Ledges
 sympathetic nucleation: an overview, 107
- Losses
 the energy spectrum of electrons passing through film targets and some of its applications to electron beam engineering, 11
- Martensitic transformation
 on the heterogeneous nucleation of martensite, 153
- Metallic oxides
 superconducting and non-superconducting oxide multilayers, 239
- Metastable phases
 effects of composition on isothermal solidification kinetics of highly undercooled alloys, 279
- MIS structures
 peak and side data analyses to measure deep levels by DLS-82E lock-in spectrometer, 51
- Microstructural development
 development of spatial correlations during coarsening, 169
- Microstructures
 microstructural characteristics of mixed III-V epitaxial layers, 231
- Mixed III-V layers
 microstructural characteristics of mixed III-V epitaxial layers, 231
- MOCVD
 phase-controlled metal-organic chemical vapor deposition epitaxial growth of GaN on GaAs(100) using NH_3 , 69
- Molybdenum trioxide
 a.c. conductivity studies on Al/MoO₃/Al sandwich structures, 93
- Neodymium
 effects of heat treatments on coercivity and microstructure in $\text{Nd}_{15}\text{Fe}_{77}\text{B}_8$ sintered magnets, 89
- Neutron scattering
 nanostructured amorphous Si-Au alloys—structure and atomic correlations, 295
- Nickel-base alloys
 the growth and elevated temperature stability of high refractory nickel-base single crystals, 255
- Noise processes and phenomena
 random walks on fractals, 201
- Nucleation
 effects of composition on isothermal solidification kinetics of highly undercooled alloys, 279

- equilibrium crystal shapes and their application to nucleation in solids, 125
- kinetics of nucleation and growth processes, 101
- microstructural development of thin films grown by pulsed laser deposition, 221
- on the heterogeneous nucleation of martensite, 153
- transient nucleation in glasses, 145
- Optical absorption
 - optical absorption of glasses in the systems $(\text{As}_2\text{Se}_3)_{1-x}\text{Te}_x$, 47
- Optical properties
 - a.c. conductivity studies on Al/MoO₃/Al sandwich structures, 93
- Orientation
 - c-axis oriented ferroelectric $\text{SrBi}_2(\text{Ta}_x\text{Nb}_{2-x})\text{O}_9$ thin films, 83
- Ostwald ripening
 - asymptotic kinetics of phase coarsening in dilute systems, 159
- Oxygen
 - gas permeabilities in thermal grown silicon dioxide films, 63
- Percolation phenomena
 - random walks on fractals, 201
- Perovskite oxides
 - superconducting and non-superconducting oxide multilayers, 239
- Phase separation
 - microstructural characteristics of mixed III-V equiaxial layers, 231
- Phase transitions
 - asymptotic kinetics of phase coarsening in dilute systems, 159
 - development of spatial correlations during coarsening, 169
- Polycrystalline films
 - texture development in polycrystalline thin films, 211
- Polysilicon-on-silicon structures
 - modeling of boron diffusion in polysilicon-on-silicon structures using a rapid thermal anneal step for ultra-shallow junction formation, 25
- Pulsed laser deposition
 - microstructural development of thin films grown by pulsed laser deposition, 221
- Quasicrystals
 - solid-state transformations involving quasicrystals, 137
- Raman scattering
 - enhanced Raman scattering from crystal violet and benzoic acid molecules adsorbed on silver nanocrystals, 39
- Rational approximants
 - solid-state transformations involving quasicrystals, 137
- Recrystallization
 - kinetics of nucleation and growth processes, 101
- Refractory elements
 - the growth and elevated temperature stability of high refractory nickel-base single crystals, 255
- RTA
 - modeling of boron diffusion in polysilicon-on-silicon structures using a rapid thermal anneal step for ultra-shallow junction formation, 25
- Secondary recrystallization
 - co-precipitation of copper-manganese sulphide in Fe-3%Si steel, 177
- Silicon oxide
 - gas permeabilities in thermally grown silicon dioxide films, 63
- Silicon steel
 - co-precipitation of copper-manganese sulphide in Fe-3% steel, 177
- Small-angle scattering
 - nanostructured amorphous Si-Au alloys—structure and atomic correlations, 295
- SNS junction
 - superconducting and non-superconducting oxide multilayers, 239
- Steel
 - on the stabilization of retained austenite: mechanism and kinetics, 267
 - sympathetic nucleation: an overview, 107
- Stillwellite phases
 - stillwellite glass-ceramics with ferroelectric properties, 17
- Straggling
 - the energy spectrum of electrons passing through film targets and some of its applications to electron beam engineering, 11
- Strontium bismuth tantalate
 - novel fatigue-free layered structure ferroelectric thin films, 75
- Strontium bismuth tantalum oxide
 - c-axis oriented ferroelectric $\text{SrBi}_2(\text{Ta}_x\text{Nb}_{2-x})\text{O}_9$ thin films, 83
- Superconductivity
 - microstructural development of thin films grown by pulsed laser deposition, 221
- Superconductivity materials
 - grain boundary and grain size effects in high and low transition temperature superconductors, 247
- Surface diffusion
 - determination of parameters of surface mass transport from morphological changes of beaded thin films, 185
- Surface energy
 - equilibrium crystal shapes and their application to nucleation in solids, 125
- Surface morphology
 - enhanced Raman scattering from crystal violet and benzoic acid molecules adsorbed on silver nanocrystals, 39
- Surface plasmons
 - enhanced Raman scattering from crystal violet and benzoic acid molecules adsorbed on silver nanocrystals, 39
- Surface roughness
 - enhanced Raman scattering from crystal violet and benzoic acid molecules adsorbed on silver nanocrystals, 39
- Surface segregation
 - equilibrium crystal shapes and their application to nucleation in solids, 125
- Sympathetic nucleation
 - sympathetic nucleation: an overview, 107
- Texture
 - texture development in polycrystalline thin films, 211
- Theory of diffusion
 - random walks on fractals, 201
- Theory of electron transport
 - grain boundary and grain size effects in high and low transition temperature superconductors, 247
- Thin films
 - determination of parameters of surface mass transport from morphological changes of beaded thin films, 185
 - gas permeabilities in thermally grown silicon dioxide films, 63
 - large-area deposition of thin films by UV pulsed laser ablation, 33

Transformations

- solid-state transformations involving quasicrystals, 137
- sympathetic nucleation: an overview, 107

Transmission electron microscopy

- nanocrystalline state and solid state amorphization, 307

Viscosity

- a thermodynamic approach to the viscous behaviour of glass-forming liquids, 285

X-ray spectroscopy

- phase-controlled metal-organic chemical vapor deposition
- epitaxial growth of GaN on GaAs(100) using NH_3 , 69

